



ATTORNEY DOCKET NO. 14014.0349U2
PATENT APPLICATION No. 10/049,586

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)	
Blackshear <i>et al.</i>)	Group Art Unit: 1634
)	
Serial No. 10/049,586)	
)	Examiner: Sisson, B. L.
)	
Filed: February 12, 2002)	
)	Confirmation No. 9700
For: TTP-RELATED ZINC FINGER DOMAINS)	
AND METHODS OF USE)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.
Customer No. 36339

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Information Disclosure Statement List is a listing of documents known to Applicants and/or their attorneys.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(c), in that neither a final Office Action nor a Notice of Allowance has been mailed to Applicants. Accordingly, Applicants enclose the fee required under 37 C.F.R. § 1.97(c)(2).

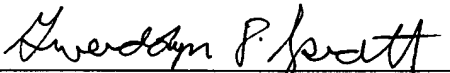
Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

ATTORNEY DOCKET NO. 14014.0349U2
PATENT APPLICATION No. 10/049,586

A Credit Card Payment Form PTO-2038 authorizing payment check in the amount of \$180.00, representing the fee under 37 C.F.R. § 1.17(p), is enclosed. This amount is believed to be correct; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.


Gwendolyn D. Spratt
Registration No. 36,016

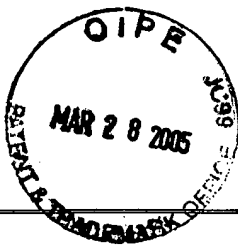
NEEDLE & ROSENBERG, P.C.
Customer Number 36339
(678) 420-9300
(678) 420-9301 (fax)

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

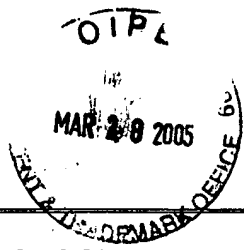
I hereby certify that this correspondence and any items indicated as attached or included are being deposited with the United States Postal Service as Express Mail Label No. EL970612199US in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.


Scott Darnell

3-28-05
Date



INFORMATION DISCLOSURE STATEMENT LIST (Use as many sheets as necessary)				Complete if Known			
				Application Number		10/049,586	
				Filing Date		February 12, 2002	
				First Named Inventor		Blackshear et al.	
				Group Art Unit		1634	
Examiner Name		Sisson, B.L.					
U.S. PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
FOREIGN PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No		
NON-PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)					
	B1.	Abraham et al., "p55 Tumor necrosis factor receptor fusion protein in the treatment of patients with severe sepsis and septic shock. A randomized controlled multicenter trial. Ro 45-2081 Study Group." JAMA. 1997 May 21;277(19):1531-8.					
	B2.	Achsel and Shimura, "Factors involved in the activation of pre-mRNA splicing from downstream splicing enhancers." J Biochem (Tokyo). 1996 Jul;120(1):53-60.					
	B3.	Agui et al., Stimulation of interleukin-6 production by endothelin in rat bone marrow-derived stromal cells. Blood 84:2531, 1994					
	B4.	Antman et al., Effect of recombinant human granulocyte-macrophage colony-stimulating factor on chemotherapy-induced myelosuppression. N. Engl. J. Med. 319:593, 1988					
	B5.	Baker EJ, Liggit P: Accelerated poly(A) loss and mRNA stabilization are independent effects of protein synthesis inhibition on alpha-tubulin mRNA in Chlamydomonas. Nuc. Acids. Res. 21:2237, 1993					
	B6.	Beelman and Parker : Degradation of mRNA in eukaryotes. Cell 81:179, 1995					
	B7.	Beelman and, Parker: Differential effects of translational inhibition in cis and in trans on the decay of the unstable yeast MFA2 mRNA. J. Biol. Chem. 269:9687, 1994					
	B8.	Bentley, SA: The role and composition of the adherent layer in long-term bone marrow culture. In: Long term bone marrow culture: proceedings of a symposium held at the Kroc Foundation. Kroc Foundation Series, vol.18. Alan R. Liss, Inc. New York. 1984					
	B9.	Beutler "TNF, immunity and inflammatory disease: lessons of the past decade." J Investig Med. 1995 Jun;43(3):227-35.					
	B10.	Beutler B. and T. Brown, "A CAT reporter construct allows ultrasensitive estimation of TNF synthesis, and suggests that the TNF gene has been silenced in non-macrophage cell lines." J Clin Invest. 1991 Apr;87(4):1336-44.					
	B11.	Blackshear, P.J. 1984. Systems for polyacrylamide gel electrophoresis. Methods Enzymol. 104:237-255.					
	B12.	Carballo et al., Phagocytic and macropinocytic activity in MARCKS-deficient macrophages and fibroblasts. Am. J. Physiol. 277:163, 1999					
	B13.	Cheng et al. "Cachexia and graft-vs.-host-disease-type skin changes in keratin promoter-driven TNF alpha transgenic mice." Genes Dev. 1992 Aug;6(8):1444-56.					
	B14.	Clements et al., "Matrix metalloproteinase expression during experimental autoimmune encephalomyelitis and effects of a combined matrix metalloproteinase and tumour necrosis factor-alpha inhibitor." J Neuroimmunol. 1997 Apr;74(1-2):85-94.					
Examiner Signature:				Date Considered:			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

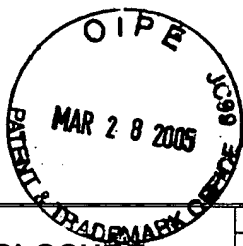
Application Number	10/049,586
Filing Date	February 12, 2002
First Named Inventor	Blackshear et al.
Group Art Unit	1634
Examiner Name	Sisson, B.L.

B15.	Derigs et al., Granulocyte-macrophage colony-stimulating factor expression is regulated at transcriptional and posttranscriptional levels in a murine bone marrow stromal cell line. Exp. Hematol. 22:924, 1994
B16.	Dexter et al., Conditions controlling the proliferation of haemopoietic stem cells in vitro. J. Cell. Physiol. 91:335, 1976
B17.	Dexter et al., Maintenance of hemopoietic stem cells and production of differentiated progeny in allogeneic and semiallogeneic bone marrow chimeras in vitro. J. Exp. Med. 145:1612, 1977
B18.	Erickson et al., Decreased sensitivity to tumour-necrosis factor but normal T-cell development in TNF receptor-2-deficient mice. Nature 372:560, 1994
B19.	Flach, et al., 1994. A yeast RNA-binding protein shuttles between the nucleus and the cytoplasm. Mol. Cell. Biol. 50:1-12.
B20.	Fu, X. D. "The superfamily of arginine/serine-rich splicing factors." RNA. 1995 Sep;1(7):663-80.
B21.	Gianni et al., Recombinant human granulocyte macrophage colony stimulating factor reduces hematologic toxicity and widens clinical applicability of high dose cyclophosphamide treatment in breast cancer. J. Clin. Oncol. 8:768, 1990
B22.	Godfrey K., "Statistics in practice. Comparing the means of several groups." N Engl J Med. 1985 Dec 5;313(23):1450-6.
B23.	Gomperts et al., 1990. The nucleotide sequence of an EGF-inducible gene indicates the existence of a new family of mitogen-inducible genes. Oncogene 5:1081-1083.
B24.	Gozani et al., "A potential role for U2AF-SAP 155 interactions in recruiting U2 snRNP to the branch site." Mol Cell Biol. 1998 Aug;18(8):4752-60.
B25.	Greenberger JS: Sensitivity of corticosteroid-dependent insulin-resistant lipogenesis in marrow preadipocytes of obese-diabetic (db/db) mice. Nature 275:752, 1978
B26.	Gueydan et al., 1996. Engagement of tumor necrosis factor mRNA by an endotoxin-inducible cytoplasmic protein. Mol. Med. 2:479-488.
B27.	Han et al. "Interactive effects of the tumor necrosis factor promoter and 3'-untranslated regions." J Immunol. 1991 Mar 15;146(6):1843-8.
B28.	Han et al., "Complex regulation of tumor necrosis factor mRNA turnover in lipopolysaccharide-activated macrophages." Biochim Biophys Acta. 1991 Aug 27;1090(1):22-8.
B29.	Hattori K. et al., "A metalloproteinase inhibitor prevents lethal acute graft-versus-host disease in mice." Blood. 1997 Jul 15;90(2):542-8.
B30.	Hel et al., 1996. Two distinct regions in the 3' untranslated region of tumor necrosis factor alpha mRNA form complexes with macrophage proteins. Mol. Cell. Biol. 16:5579-90.
B31.	Hel et al., 1998. Characterization of the RNA binding proteins forming complexes with a novel putative regulatory region in the 3'-UTR of TNF- mRNA. Nucleic Acids Res. 26:2803-2812.
B32.	Hensel et al., "Autocrine stimulation of TNF-alpha mRNA expression in HL-60 cells." Lymphokine Res. 1987 Spring;6(2):119-25.
B33.	Heximer et al., 1993. A human putative lymphocyte G0/G1 switch gene homologous to a rodent gene encoding a zinc-binding potential transcription factor. DNA & Cell Biol. 12:73-88.
B34.	Jacob C. O., "Studies on the role of tumor necrosis factor in murine and human autoimmunity." J Autoimmun. 1992 Apr;5 Suppl A:133-43
B35.	Jorres A. et al., "Inhibition of tumour necrosis factor production in endotoxin-stimulated human mononuclear leukocytes by the prostacyclin analogue iloprost: cellular mechanisms." Cytokine. 1997 Feb;9(2):119-25.

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

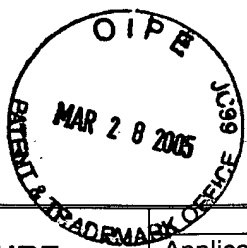
Application Number	10/049,586
Filing Date	February 12, 2002
First Named Inventor	Blackshear et al.
Group Art Unit	1634
Examiner Name	Sisson, B.L.

B36.	Katz et al., 1994. AU-A, an RNA-binding activity distinct from hnRNP A1, is selective for AUUUA repeats and shuttles between the nucleus and the cytoplasm. Nucleic Acids Res. 22:238-46.
B37.	Keffer et al., "Transgenic mice expressing human tumour necrosis factor: a predictive genetic model of arthritis." EMBO J. 1991 Dec;10(13):4025-31.
B38.	Klausner et al., Cell 72, 19 (1993); A. B. Sachs, Cell 74, 413 (1993).
B39.	Koeffler et al., Transcriptional and postranscriptional modulation of myeloid colony-stimulation factor expression by tumor necrosis factor and other agents. Mol. Cell. Biol. 8:3432, 1988
B40.	Kolodziej, P.A., and R.A. Young. 1991. Epitope tagging and protein surveillance. Methods in Enzymology 194:508-519.
B41.	Lai et al., Rapid insulin-stimulated accumulation of an mRNA encoding a proline-rich protein. J. Biol. Chem. 265:16556, 1990
B42.	Lai, et al., 1998. Characteristics of the intron involvement in the mitogen-induced expression of Zfp-36. J. Biol. Chem. 273:506-517.
B43.	Lai, et al., 1995. Promoter analysis of Zfp-36, the mitogen-inducible gene encoding the zinc finger protein tristetraprolin. J. Biol. Chem. 270:25266-25272.
B44.	Lang et al., TNF α , IL-1 α and bFGF are implicated in the complex disease of GM-CSF transgenic mice. Growth Factors 6:131, 1992
B45.	Lewis et al., 1998. Mapping of a minimal AU-rich sequence required for lipopolysaccharide-induced binding of a 55-kDa protein on tumor necrosis factor- mRNA. J. Biol. Chem. 273:13781-13786.
B46.	Lobach et al., "Nucleotide sequence, expression, and chromosomal mapping of Mrp and mapping of five related sequences." Genomics. 1993 Jul;17(1):194-204.
B47.	Lorenz H. M. et al., "In vivo blockade of TNF-alpha by intravenous infusion of a chimeric monoclonal TNF-alpha antibody in patients with rheumatoid arthritis. Short term cellular and molecular effects." J Immunol. 1996 Feb 15;156(4):1646-53.
B48.	Ma et al., 1994. The Drosophila TIS11 homologue encodes a developmentally regulated gene. Oncogene 9:3329-3334.
B49.	Ma, Q., and H.R. Herschman. 1991. A corrected sequence for the predicted protein from the mitogen-inducible TIS11 primary response gene. Oncogene 6:1277-1278.
B50.	Mello et al., 1996. The PIE-1 protein and germline specification in C. elegans embryos. Nature 382:710-712.
B51.	Mercer and Wake. 1985. An analysis of the rate of metallothionein mRNA poly(A)-shortening using RNA blot hybridization. Nucleic Acids Res. 13:7929-7943.
B52.	Merendino et al., "Inhibition of msl-2 splicing by Sex-lethal reveals interaction between U2AF35 and the 3' splice site AG." Nature. 1999 Dec 16;402(6763):838-41.
B53.	Morimoto et al. "KB-R7785, a novel matrix metalloproteinase inhibitor, exerts its antidiabetic effect by inhibiting tumor necrosis factor-alpha production." Life Sci. 1997;61(8):795-803.
B54.	Natesan et al., 1997. Transcriptional squelching re-examined. Nature 390:349-350.
B55.	Nemunaitis J: Use of hematopoietic growth factors in marrow transplantation. Curr. Opin. Oncol. 6:139, 1994
B56.	Ning et al., "Distinct mechanisms for rescue from apoptosis in Ramos human B cells by signalling through CD40 and interleukin-4 receptor: role for inhibition of an early response gene, Berg36." Biochem Soc Trans. 1997 May;25(2):306S.
B57.	Odeh "The role of tumour necrosis factor-alpha in acquired immunodeficiency syndrome." J Intern Med. 1990 Dec;228(6):549-56.

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

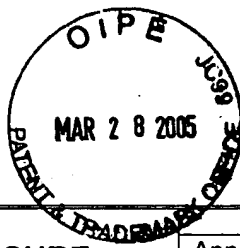
Application Number	10/049,586
Filing Date	February 12, 2002
First Named Inventor	Blackshear et al.
Group Art Unit	1634
Examiner Name	Sisson, B.L.

B58.	Otsuka et al., 1988. Isolation and characterization of an expressible cDNA encoding human IL-3. Induction of IL-3 mRNA in human T cell clones. J. Immunol. 140:2288-2295.
B59.	Reimund et al., "Mucosal inflammatory cytokine production by intestinal biopsies in patients with ulcerative colitis and Crohn's disease." J Clin Immunol. 1996 May;16(3):144-50.
B60.	Rizzuto et al., 1995. Chimeric green fluorescent protein as a tool for visualizing subcellular organelles in living cells. Curr. Biol. 5:635-642.
B61.	Ross et al., Cytokine messenger RNA stability is enhanced in tumor cells. Blood 77:1787, 1991
B62.	Rothe et al., Mice lacking the tumour necrosis factor receptor 1 are resistant to TNF-mediated toxicity but highly susceptible to infection by listeria monocytogenes. Nature 364:798, 1993
B63.	Rubin HN, Halim MN: Stimulation of globin synthesis by 11-amino acid peptide. Biochem. Mol. Biol. Int. 31:267, 1993
B64.	Sachs, "Messenger RNA degradation in Eukaryotes" ell 74:413-421 (1993)
B65.	Schuler GD, Cole MD: GM-CSF and oncogene mRNA stabilities are independently regulated in trans in a mouse monocytic tumor. Cell 55:1115, 1988
B66.	Seydoux et al., 1996. Repression of gene expression in the embryonic germ lineage of C. elegans. Nature 382:713-716.
B67.	Shalaby et al. "Prevention of the graft-versus-host reaction in newborn mice by antibodies to tumor necrosis factor-alpha." Transplantation. 1989 Jun;47(6):1057-61.
B68.	Shaw, G., and R. Kamen. 1986. A conserved AU sequence from the 3' untranslated region of GM-CSF mRNA mediates selective mRNA degradation. Cell 46:659-667.
B69.	Shi Y. et al., J. Biol. Chem. 272, 29290 (1997).
B70.	Shyu et al., "The c-fos transcript is targeted for rapid decay by two distinct mRNA degradation pathways." Genes Dev. 1989 Jan;3(1):60-72.
B71.	Solorzano et al., "A matrix metalloproteinase inhibitor prevents processing of tumor necrosis factor alpha (TNF alpha) and abrogates endotoxin-induced lethality." Shock. 1997 Jun;7(6):427-31.
B72.	Spriggs et al., "Phospholipase A2 activation and autoinduction of tumor necrosis factor gene expression by tumor necrosis factor." Cancer Res. 1990 Nov 15;50(22):7101-7.
B73.	Stanley et al., The structure and expression of the murine gene encoding granulocyte-macrophage colony stimulating factor: evidence for utilization of alternative promoters. EMBO J. 4:2569,1985
B74.	Stumpo et al., "Identification of c-fos sequences involved in induction by insulin and phorbol esters." J Biol Chem. 1988 Feb 5;263(4):1611-4.
B75.	Stumpo et al., "MARCKS deficiency in mice leads to abnormal brain development and perinatal death." Proc Natl Acad Sci U S A. 1995 Feb 14;92(4):944-8.
B76.	Stumpo et al., Molecular cloning, characterization and expression of a cDNA encoding the 80 to 87 kDa myristoylated alanine-rich C kinase substrate: a major cellular substrate for protein kinase C. Proc. Natl. Acad. Sci. USA 86:4012, 1989
B77.	Taylor et al., A pathogenetic role for TNF α in the syndrome of cachexia, arthritis, and autoimmunity resulting from tristetraprolin (TTP) deficiency. Immunity 4:445, 1996
B78.	Taylor et al., Mitogens stimulate the rapid nuclear to cytosolic translocation of tristetraprolin, a potential zinc-finger transcription factor. Mol. Endocrinol. 10:140, 1996
B79.	Taylor et al., Phosphorylation of tristetraprolin, a potential zinc finger transcription factor, by mitogen stimulation in intact cells and by mitogen activated protein kinase in vitro. J. Biol. Chem. 270:13341, 1995

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**INFORMATION DISCLOSURE
STATEMENT LIST**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/049,586
Filing Date	February 12, 2002
First Named Inventor	Blackshear et al.
Group Art Unit	1634
Examiner Name	Sisson, B.L.

B80.	te Kronnie et al., "Zebrafish CTH1, a C3H zinc finger protein, is expressed in ovarian oocytes and embryos." Dev Genes Evol. 1999 Jul;209(7):443-6.
B81.	Thorens et al., Phagocytosis and inflammatory stimuli induce GM-CSF mRNA in macrophages through posttranscriptional regulation. Cell 48:671,1987
B82.	Tso et al., Isolation and characterization of rat and human glyceraldehyde-3-phosphate dehydrogenase cDNA: genomic complexity and molecular evolution of the gene. Nucl. Acids Res. 13:2485, 1985
B83.	Ulich et al., "Haematologic effects of TNF." Res Immunol. 1993 Jun;144(5):347-54.
B84.	Vadhan-Raj S, et al., Stimulation of myelopoiesis in patients with aplastic anemia by recombinant human granulocyte macrophage colony stimulating factor. N. Engl. J. Med. 319:1628, 1988
B85.	Van Den Heuvel et al., Stromal cells in long-term cultures of liver, spleen and bone marrow at different developmental ages have different capacities to maintain GM-CFC proliferation. Exp. Hematol. 19:115, 1991
B86.	Varnum et al., HR: The TIS11 primary response gene is a member of a gene family that encodes proteins with a highly conserved sequence containing and unusual Cys-His repeat. Mol. Cell. Biol. 11:1754, 1991
B87.	Varnum et al., Nucleotide sequence of a cDNA encoding TIS11, a message induced in Swiss 3T3 cells by the tumor promoter tetradecanoyl phorbol acetate. Oncogene 4:119, 1989
B88.	Vogel et al., Induction of colony stimulating factor in vivo by recombinant interleukin 1 α and recombinant tumor necrosis factor α . J. Immunol. 138:2143, 1987
B89.	Wodnar-Filipowicz A, Moroni C: Regulation of interleukin 3 mRNA expression in mast cells occurs at the posttranscriptional level and is mediated by calcium ions. Proc. Natl. Acad. Sci. USA 87:777, 1990
B90.	Worthington et al., 1996. Metal binding properties and secondary structure of the zinc-binding domain of Nup475. Proc. Natl. Acad. Sci. USA 93:13754-13759.
B91.	Wu et al., "Neural tube defects and abnormal brain development in F52-deficient mice." Proc Natl Acad Sci U S A. 1996 Mar 5;93(5):2110-5.
B92.	Xu et al., "Modulation of the fate of cytoplasmic mRNA by AU-rich elements: key sequence features controlling mRNA deadenylation and decay." Mol Cell Biol. 1997 Aug;17(8):4611-21.
B93.	Yam et al., Cytochemical identification of monocytes and granulocytes. Am. J. Clin. Pathol. 55:283, 1971
B94.	Zhang et al., "Cloning and intracellular localization of the U2 small nuclear ribonucleoprotein auxiliary factor small subunit." Proc Natl Acad Sci U S A. 1992 Sep 15;89(18):8769-73.
B95.	Zoja et al., Interleukin-1 β and tumor necrosis factor- α induce gene expression and production of leukocyte chemotactic factors, colony-stimulating factors, and interleukin-6 in human mesangial cells. Am. J. Pathol. 138:991, 1991
B96.	Zorio and Blumenthal, "Both subunits of U2AF recognize the 3' splice site in Caenorhabditis elegans." Nature. 1999 Dec 16;402(6763):835-8.
B97.	Zuo and Maniatis, "The splicing factor U2AF35 mediates critical protein-protein interactions in constitutive and enhancer-dependent splicing." Genes Dev. 1996 Jun 1;10(11):1356-68.

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.